

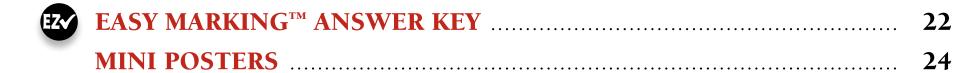
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FEACHER GUIDE

•	Assessment Rubric	4
•	How Is Our Resource Organized?	5
•	Bloom's Taxonomy for Reading Comprehension	6
•	Vocabulary	6

STUDENT HANDOUTS READING COMPREHENSION

Your School and Climate Change	
How Your School Uses Energy	7
Cars, Buses, Bicycles, and Feet	
Footprints in Your Lunch	
• We Recycle Cans, Trees Recycle Carbon	
Study Green	
Reduce What You Can and Offset the Rest	
Graphic Organizer	12
Carbon Footprint Calculator	14
Calculating Your School's New, Improved Carbon Footprint	16
Crossword	18
• Word Search	19
Comprehension Quiz	20



6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC5779
- Enter pass code CC5779D for Activity Pages

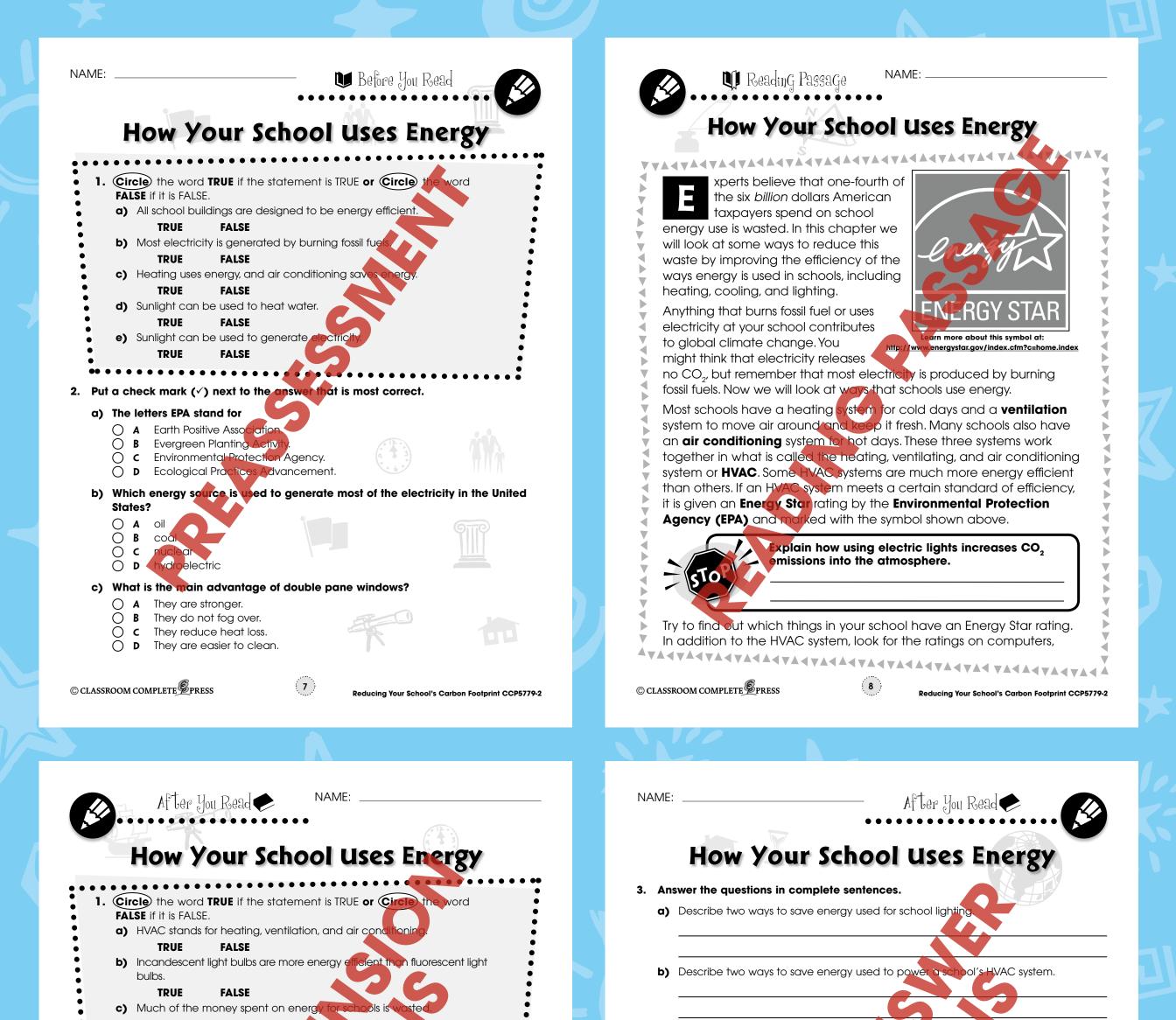


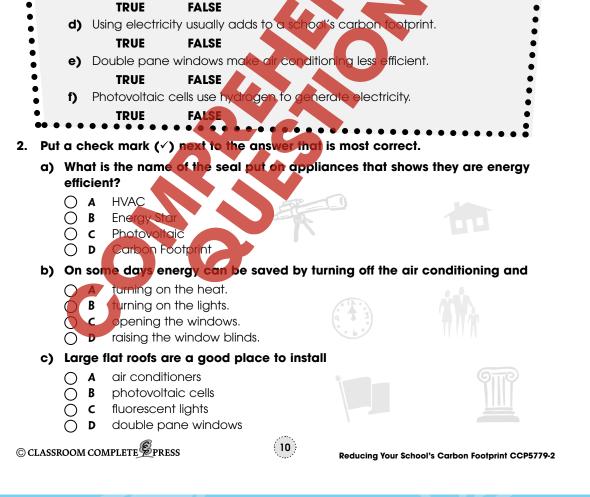
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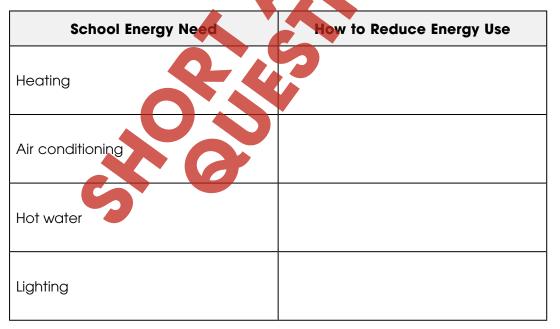
Reducing Your School's Carbon Footprint CCP5779-2





Extensions & Applications

In each square of the right-hand column of the graphic organizer below, describe a way to reduce energy use for the energy need listed in the square to the left.



See page 12 for Final Version Worksheet.

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Ca	rbon Fo	otprint C	Hands-On Activity # 2					Ŧ		W	or	d S	iea	••••	: h	•••			•••	<u>S</u>
1 Student Jumber	2 Miles Traveled by	3 Miles Traveled by	4 S Number of Students in Divided by	Fi	nd all	of th				, and	som	irch. V e are	even	writ	ten k	back	ward	s.	ly, ver	tically,
e zeroes in set this up	Bus columns 2 through	Car h 5 for students whc ou will save time. To	walk or bike to school, If you or a friend calculate your school's travel footprint:		ado atmos cark carbon	ohere bon		СС	rbon carp	ootpri offse ool chang	t		rgy st EPA Iobal nouse		in	ilowat HV Icana Notosy	AC esce inthe	nt	read the	ovoltaic ctant erm DC
Add the re	esults in step 2 and	I divide the sum by t	otal of column 5 by 1.0. The number of students surveyed. This is		A	В	T	Ν	E	С	S	E D	N	A	С	N		С	D	
		in lbs. of CO ₂ /day. by average attenda	nce, then by the number of school days		E	к	F	G	R	A	T	s y	G	R	E	IV	E	н	I	
in a schoo	l year.	2000 and write the			J	I	к	L	С	R	R	E A	C		A	N	Т	м	Т	
		r. This is your school			N	L	0	Р	I	В	Q	R A	G	c	A	R	В	0	Ν	
			a. Ask the cafeteria staff how many		S	0	T	U	А	0	V	RW	X		Y	Z	А	В	I	
	here on an averag the number 8.22 l		organic, and if it is grown locally.		E	w	С	D	т	N	Р	E G	G	1	0	н	I	J	R	
Subtract 0	.55 if the food is or	rganic and 0.37 if it i			R	A	С	К	L	0	L	M N	0	М	E	В	Р	Q	Р	
Multiply th the numbe	e result by the nur er of days in the sc	nber of students ea chool year.	ting there per day and then multiply by		E	Т	R	0	0	F	S	T U	V	A	w	X	A	Y	Т	
Divide the	result of step 3 by	2000 and write the r. This is your school	answer here: s food footprint.		н	Т	Z	L	V	F	A	вС		Т	E	F	G		0	
	Ind Trees				P	н	0	T	0	5			Н	E	S		S	Н	0	
			ny tons of waste material your school ees on the school's property.		S	0			-	E	ĸ			C	M	N	0	P	F	
			e. Subtract 0.42 if food waste is compost- cans are recycled, and 0.07 each if			U	- Q			T		R V		Н			U		N	
s or plastic	are recycled.	,			м	R			H	Y		A Z		A	B	P	C C	D	0	
write the	sult by the number answer here:		ur school sends to a landfill each year, year. This is your school's waste footprint.																-	
the result e:	above to the resu tons CO,/ye	lts for energy, transp	ortation, and food, write the answer			S	E	F	P	G				N	K		A	M	B	
tiply the nu	mber of trees on so	chool property by 0.	020 and write the answer here:		A	N	0	Р	Q	R	S	T U	+	G	W	X	Y	D	R	
		nount above and wi	ite the answer here: tons		Z	S	A	G	E	S	U	р Н	N	E	E	R	G	A	A	
/year . This	s is your total sch	ool carbon footpri	nt!		В	C	D	E	D	Ι	X	I C	D	Ν	0	В	R	A	С	
ASSROOM CC	MPLETE PRESS	15	Reducing Your School's Carbon Footprint CCP5779-2	©c	LASSROC	OM COI	MPLET	e © pf	RESS			19		Red	ducing	Your Sc	hool's	Carbor	Footprint	CCP577
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Answer each question in complete sentences.

What does the Energy Star rating mean? 1.



3

you can

NAME: After You Read How Your School Uses Energy 1. Circle the word TRUE if the statement is TRUE or Circle the word 1. FALSE if it is FALSE. a) TRUE a) HVAC stands for heating, ventilation, and air conditioning. TRUE FALSE b) FALSE b) Incandescent light bulbs are more energy efficient than fluorescent light bulbs. TRUE FALSE c) TRUE c) Much of the money spent on energy for schools is wasted. TRUE FALSE d) TRUE d) Using electricity usually adds to a school's carbon footprint. e) FALSE TRUE FALSE e) Double pane windows make air conditioning less efficient. f) FALSE TRUE FALSE Photovoltaic cells use hydrogen to generate electricity. **f**) TRUE FALSE 2. Put a check mark (\checkmark) next to the answer that is most correct. 2. a) What is the name of the seal put on appliances that shows they are energy a) 🖉 B efficient? NG Photovoltaic Carbon Footprint b) On some days energy can be saved by turning off the air conditioning and b) 🕜 C \bigcirc **A** turning on the heat. **B** turning on the lights. \bigcirc **C** opening the windows. raising the window blinds. $\bigcirc \mathbf{D}$ c) Large flat roofs are a good place to install c) 🕜 B air conditioners () A ⊖ B photovoltaic cells

- \bigcirc **C** fluorescent lights
- double pane windows D \bigcirc

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a) (Answers will vary.) Change to energy efficient bulbs and raise blinds on a sunny day.

b) (Answers will vary.) Open windows and turn off AC. Install double-paned windows.

Extensions & Applications

School Energy Need	How to Reduce Energy Use							
Heating	Install better insulation and double-pane windows.							
Air conditioning	Open the windows and turn off the air conditioning when outside temperature permits.							
Hot water	Install solar water heaters on school roof.							
Lighting	Raise the blinds and turn off some of the lights.							



KEY



